First Nations Water Rights in British Columbia

A Historical Summary of the rights of the Skowkale First Nation

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MINISTRY OF ENVIRONMENT, LANDS and PARKS
WATER MANAGEMENT BRANCH

FIRST NATIONS WATER RIGHTS IN BRITISH COLUMBIA:

A Historical Summary of the rights of the Skowkale First Nation

Research and writing by:	Christina Rocha
Edit by:	JOL Consulting
Review by:	Gary W. Robinson
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Gary Robinson
Project Manager
Water Management Branch

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FIRST NATIONS WATER RIGHTS REPORT

BAND: Skowkale Band

ADDRESS: P.O. Box 365, Sardis, B.C., V2R 1A7

CHIEF: Chief Steven Point

PHONE: 797-0730 **FAX:** 792-1153

AFFILIATION: Sto:lo Nation Canada

LOCATION:

The Skowkale Band occupies two reserves in the area located south of the City of Chilliwack and east of the Town of Sardis, in the lower mainland. The reserves are Skulkayn 10 and Skulkayn 11. Skulkayn 10 is a 56.3 hectare reserve located on the west bank of Chilliwack Creek, east of Sardis. Skulkayn 11 is a 12.1 hectare reserve. Skulkayn Reserve No. 11 borders Skulkayn 10 on the west bank of Chilliwack Creek. Water rights have been issued on Skulkayn Reserve No. 10.

The most recent population figures compiled by the Ministry of Finance indicate that the Skowkale Band has a total population, including registered and non-registered members, living on- and off-reserve, of 164.

The reserves of the Skowkale Band are locate in the Coastal Western Hemlock Biogeoclimatic Zone. Both reserves lie at elevations of approximately ten feet above mean sea level, and are exposed to a similar regional climate. Average daily temperatures in the region range from lows of 0 degrees centigrade in January to highs of 20 degrees centigrade in July. Annual rainfall for the area averages between 100 to 250 centimeters.

The water courses of significance include:

- **Chilliwack Creek**: flows west between Skulkayn Reserve No. 10 and Skulkayn Reserve No 11, into the Fraser River.

WATER ALLOCATIONS:

There are no records of any allocations made by either the Indian Reserve Commission, by Order-in-Council of the Lieutenant Governor in Council, or by Order of the Board of Investigation.

The water rights of the Skowkale Band have been determined by two actions of government over the years:

1) The issue of water licences in response to Federal Government applications requesting authorization for the use of water on reserve lands.

2) Actions to amend, cancel or record as abandoned, licenced rights pursuant to provisions contained in the *Water Act*.

HISTORY, CURRENT STATUS AND NOTES:

The history of water rights, the current status of rights, and notes for the Skowkale Band with respect to Chilliwack Creek are as follows:

Chilliwack Creek

History:

Oct 1, 1949 — In accordance with an application made by Harold P. Young, the Comptroller of Water Rights issued Conditional Water Licence 19231. This licence was assigned a precedence date of June 12, 1949 and authorizes the diversion of 88 acre-feet, from April 1 to September 30, from Chilliwack River, for irrigation purpose. The appurtenant lands are specified as the 33.57 acre parcel, registered sketch 1666 (except 1.662 acre parcel, Registered Sketch 6367) of District Lots 296 and 340, Group 2, New Westminster District, part 1.614 acres of Skulkayn Reserve No. 10 (as indicated on Registered Sketch 6367) and rented 13.9 acre parcel of Reserve No. 10 as described on applicant's lease. Of these lands 44 acres may be irrigated.

Feb 2, 1953 — In accordance with an application filed by Louie Woo, the Comptroller of Water Rights issued Conditional Water Licence 21190. The licence was assigned a precedence date of August 19, 1952 and authorizes the diversion of 7 acre-feet, from April 1 to September 30, from Chilliwack Creek for irrigation purpose. The

appurtenant lands are defined as 7 acres of an 18.2 acre parcel of part of Skulkayn Reserve No. 10, within Township 26, East Coast Meridian.

Sep 1, 1953 Based on the extent to which the rights authorized under Conditional Licence 19231 were exercised, the Comptroller of Water Rights issued Final Water Licence 15102 (in substitution) to Harold P. Young. The licence was assigned a precedence date of June 12, 1949 and authorizes the diversion of 64.5 acre-feet, from April 1 to September 30, from Chilliwack Creek. Of the appurtenant lands (33.57 acre parcel Registered Sketch 1666 of District Lots 296 and 340 Group 2 New Westminster District (except 1.662 acre parcel Registered Sketch 6367); a 1.614 acre parcel being part of Skulkayn Reserve No. 10 indicated on Registered Sketch 6367 (purchased property); and the leased 13.9 acre parcel of said Reserve No. 10 as described on applicant's lease (L.I. 2213389)), 44 acres may be irrigated.

Jun 3, 1957 In response to an application submitted by Louie Woo, the Comptroller of Water Rights issued Conditional Water Licence 23663. This licence was given a precedence date of December 7, 1956 and authorizes the diversion of 7 acre-feet, from April 1 to September 30, from Chilliwack Creek for irrigation purpose. The appurtenant lands are described as 7 acres of an 18.2 acre parcel in the southwest corner of Skulkayn Reserve No. 10, within Township 26, East Coast Meridian.

Jun 10, 1974 Conditional Water Licences 21190 and 23663 were recorded as abandoned. Further information pertaining to conditions surrounding the abandonment of these licences is not available; the corresponding files have since been destroyed.

Current Status:

There are currently fifteen licences active on Chilliwack Creek, none of which are held by the Skowkale Band. One of the licences is appurtenant to Skulkayn 10; the property is currently leased and the licence is thus registered in the lessees name. Of the 15 licences:

- 13 authorize the use of water for irrigation purpose, ranging from 5.3 to 100 acre-feet per year.

- 1 authorizes the use of 2,860 gallons of water per day for conservation - stored water purpose.

- 1 authorizes the use of the total flow of water for land improvement purpose.

Final Water Licence 15102 is first in priority on Chilliwack Creek and is currently registered to Kloot Farms Ltd. The farm currently leases a 13.9 acre parcel of Skulkayn Reserve No. 10.

The Water Survey of Canada operated station 08MF061 on Chilliwack Creek from 1960 to 1964, during the months of January through April and September through December. For these periods, the station recorded a minimum daily discharge of .193 m^3/sec (6.82 cubic feet/sec) on August 30, 1961, and a maximum daily discharge of 10.7 m^3/sec (377.86 cubic feet/sec) on February 21, 1961. Mean monthly discharges reached lows in the order of .629 m^3/sec in October, and rose to highs of approximately 2.17 m^3/sec in January.

Notes:

1. The issue of Final Water Licence 15102, in substitution of Conditional Water Licence 19231, resulted in a loss of licensed water rights for the Skowkale Band on Chilliwack Creek.

OTHER INFORMATION:

Groundwater Records:

A review of well records maintained by the MELP - Groundwater Section found that no wells have been reported on either of the Skowkale Reserves. However, since the provision of well information to the Groundwater Section is voluntary the review should not be assumed to be complete.

Alternate Water Sources:

The proximity of Skowkale Band reserves to the towns of Chilliwack and Sardis presents the potential for water supply to both reserves via connection to either towns' municipal water system.

Summary of Water Rights Records								
Skowkale First Nation								
Water Source	**Priority Date**	**Reserve Name**	**File No.**	**Document Type**	**Status**	**Superceded By**	**Licence PUC/MOD & OIC Allotments**	**Comments**
Chilliwack Creek	1949/06/12	Skulkayn 10	0178939	CL 19231	Superceded	FL 15102	88 AF/Irrigation	
Chilliwack Creek	1949/06/12	Skulkayn 10	0178939	FL 15102	Current		64.5 AF/Irrigation	FL 15102: Substitution of CL 19231 resulted in loss of licenced rights.
Chilliwack Creek	1952/08/19	Skulkayn 10	0196293	CL 21190	Abandoned		7 AF/Irrigation	
Chilliwack Creek	1956/12/07	Skulkayn 10	0214203	CL 23663	Abandoned		7 AF/Irrigation	

W.R.B. 18—SM-649-3949 (2)

PROVINCE OF BRITISH COLUMBIA

Water Rights Branch

DEPARTMENT OF LANDS AND FORESTS

CONDITIONAL WATER LICENCE

HAROLD P. YOUNG of 220 River Road, Chilliwack, B.C., is hereby authorized to divert and use water as follows:—

(a) The source of the water-supply is Chilliwack River.

(b) The point of diversion is located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 12th June, 1949.

(d) The purpose for which the water is to be used is Irrigation.

(e) The maximum quantity of water which may be diverted is 88 acre feet per annum and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(f) The period of the year during which the water may be used is 1st April to 30th September.

(g) The land upon which the water is to be used and to which this licence is appurtenant is The 33.57 acre parcel, Registered Sketch 1666 (except 1.662 acre parcel, Registered Sketch 6367) of District Lots 296 and 340, Group 2, New Westminster District, part 1.614 acres of Skulkayn Indian Reserve No. 10 (as indicated on Registered Sketch 6367) and rented 13.9 acre parcel of Indian Reserve No. 10 as described on applicant's lease, of which 44 acres may be irrigated.

(h) The works authorized to be constructed are Pump and Pipe and they shall be located approximately as shown on the attached plan.

(i) The construction of the said works shall be commenced on or before the 30th day of June, 1950 and shall be completed and the water beneficially used on or before the 31st day of December, 1952.

ENTERED ON Map No. 5731 By A=L

Superseded by Final Licence 15107

J.L. Lane

Deputy *Comptroller of Water Rights.*

File No. 0178939 Date issued October 1, 1949 Licence No. 19231

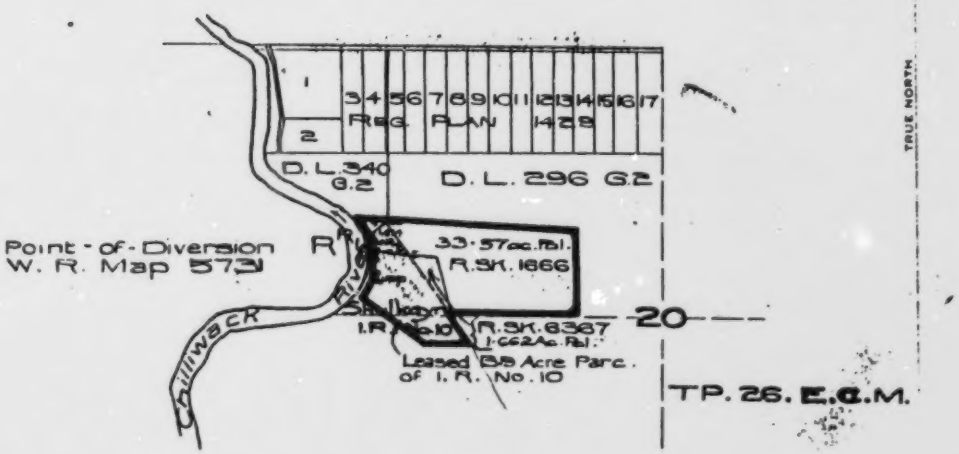
British Columbia

To accompany Conditional Licence No. 19231

NEW WESTMINSTER WATER DISTRICT

Scale: 20 Chains to 1 Inch

NEW WESTMINSTER LAND REG. DIST.



NEW WESTMINSTER LAND DIST

LEGEND

Point of Diversion O

Pipe — — —

The boundaries of the land to which this licence is appurtenant are shown thus ———

[illegible] for this Licence [illegible] used for the Final Licence.

Signature J. B. Lamb

Date Oct. 1st, 1949

C.L. 19231
File 0178939

EXHIBIT "A"

108 318-9424

W.R. 6-3473 (3)

PROVINCE OF BRITISH COLUMBIA

Water Rights Branch

DEPARTMENT OF LANDS AND FORESTS

CONDITIONAL WATER LICENCE

LOUIE WOO of P. O. Box 74, Sardis, B.C.,

is hereby authorized to divert and use water as follows:—

(a) The source of the water-supply is Chilliwack Creek.

(b) The point of diversion is located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 19th August 1952.

(d) The purpose for which the water is to be used is Irrigation.

(e) The maximum quantity of water which may be diverted is 7 acre feet per annum and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(f) The period of the year during which the water may be used is 1st April to 30th September.

(g) The land upon which the water is to be used and to which this licence is appurtenant is an 18.2 acre parcel of part of Indian Reserve No. 10, Skulkayn, within Township 26, East Coast Meridian, of which 7 acres may be irrigated.

(h) The works authorized to be constructed are Pump and pipe (sprinkler system) and they shall be located approximately as shown on the attached plan.

(i) The construction of the said works has already been commenced and shall be completed and the water beneficially used on or before the 31st day of December, 19 55.

Map No. 5731
By A.E.L.

(E. H. TREDCROFT.)
Comptroller of Water Rights.

File No. 0196293 Date issued February 2, 1953. Licence No. 21190

ABAN JUNE 10, 1974

5

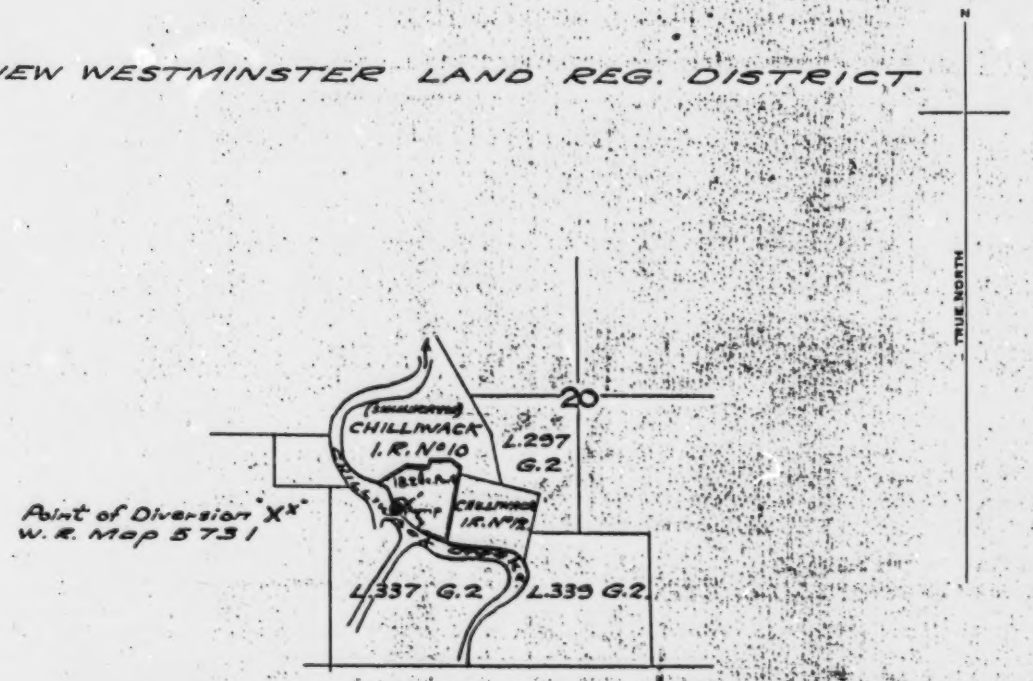
British Columbia

To accompany Conditional Licence No. 21190

NEW WESTMINSTER WATER DISTRICT

Scale: 40 Chains to 1 Inch

NEW WESTMINSTER LAND REG. DISTRICT.



TP. 26, E.C.M.

NEW WESTMINSTER LAND DIST.

LEGEND

Point of Diversion ●

Pipeline ——

The boundaries of the land to which this licence is appurtenant are shown thus: ▬▬▬

Signature: E. K. Wilson

Date Feb 2, 1983.

C.L. 21190

File 0150263

EXHIBIT "A"

W.R.B. 13—0

PROVINCE OF BRITISH COLUMBIA

Water Rights Branch

DEPARTMENT OF LANDS AND FORESTS

CONDITIONAL WATER LICENCE

Louie Woo, of P. O. Box 144, Gordis, B. C.,

is hereby authorized to divert and use water as follows:—

(a) The source of the water-supply is Chilliwack Creek.

(b) The point of diversion is located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 7th December, 1956.

(d) The purpose for which the water is to be used is irrigation.

(e) The maximum quantity of water which may be diverted is 7 acre feet per annum and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(f) The period of the year during which the water may be used is 1st April to 30th September.

(g) The land upon which the water is to be used and to which this licence is appurtenant is an 18.2 acre parcel in the South West corner of Indian Reserve No. 10, Skulkayn, within Township 26, East Coast Meridian, of which 7 acres may be irrigated.

(h) The works authorized to be constructed are pump and pipe (sprinkler system), and they shall be located approximately as shown on the attached plan.

(i) The construction of the said works has been commenced , and shall be completed and the water beneficially used on or before the 31st day of December , 19 59.

(j) This licence is granted on the understanding that it may be cancelled at any time on six months notice in writing by the Comptroller of Water Rights.

ENTERED ON
Map No
By

A. [illegible] Forget,
Comptroller of Water Rights.

File No. 0214203 Date issued June 3rd, 1957. Licence No. 23663

ABANDONED
10 JUNE 1974

7

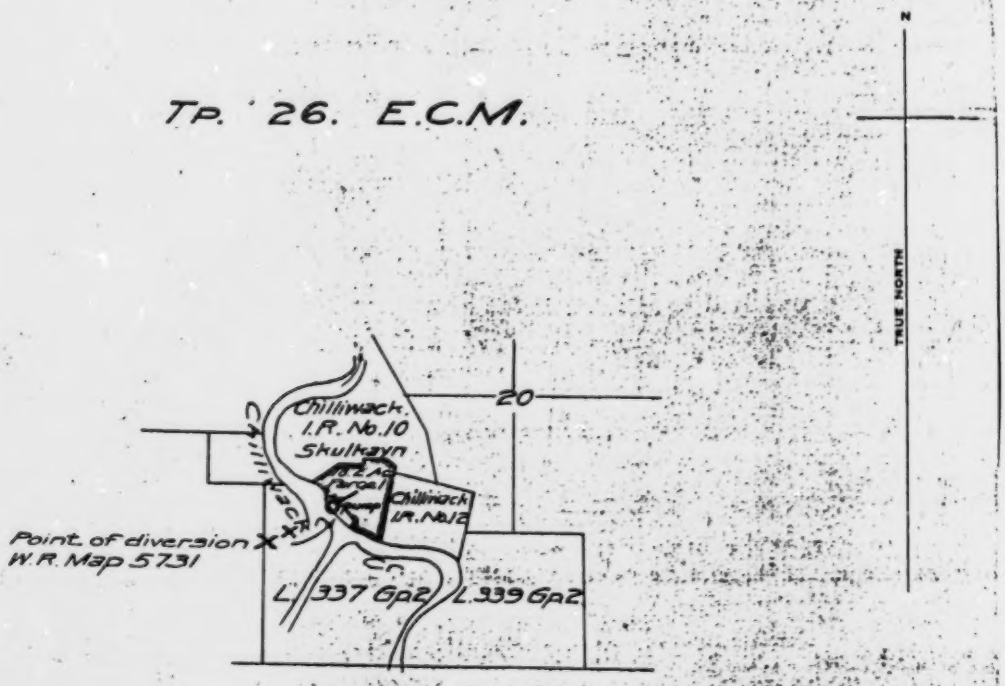
British Columbia

To accompany Conditional Licence No. 23663

NEW WESTMINSTER WATER DISTRICT

Scale: 40 Chains to 1 Inch

TP. 26. E.C.M.



NEW WESTMINSTER DIST.

LEGEND

Point of Diversion O

Pipe —--

The boundaries of the land to which this licence is appurtenant are shown thus: ▬▬▬

Signature [signature]

Date 3rd June 1957

EXHIBIT "A"

CL 23663
File 0214203

100-1949-6861

W.R.B. 17 '51-831-8504 (2)

PROVINCE OF BRITISH COLUMBIA

Water Rights Branch

DEPARTMENT OF LANDS AND FORESTS

FINAL WATER LICENCE

HAROLD P. YOUNG of 220 River Road, Chilliwack, B.C.

is hereby authorized to divert and use water as follows:—

(a) The source of the water-supply is Chilliwack Creek

(b) The point of diversion is located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 12th June 1949

(d) The purpose for which the water is to be used is Irrigation

(e) The maximum quantity of water which may be diverted is 64.5 acre feet per annum

and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(f) The period of the year during which the water may be used is 1st April to 30th September

(g) The land upon which the water is to be used and to which this licence is appurtenant is as follows: The 33.57 acre parcel Registered Sketch 1666 of District Lots 296 and 340 Group 2 New Westminster District (except 1.662 acre parcel Registered Sketch 6367). A 1.614 acre parcel being part of Skulkayn Indian Reserve Number 10 indicated on Registered Sketch 6367 (Purchased property). Also the leased 13.9 acre parcel of said Indian Reserve Number 10 as described on applicant's lease (L.I.2213389); of which 44 acres may be irrigated.

(h) The works authorized hereunder are Pump: Pipe located as shown on the attached plan.

(i) This licence is issued in substitution of Conditional Water Licence No. 19231

ENTERED ON Map No. 5731 RM

Deputy (A.T. Pugh) Comptroller of Water Rights.

15102

File No. 0178939 Date issued September 1,1953 Licence No.

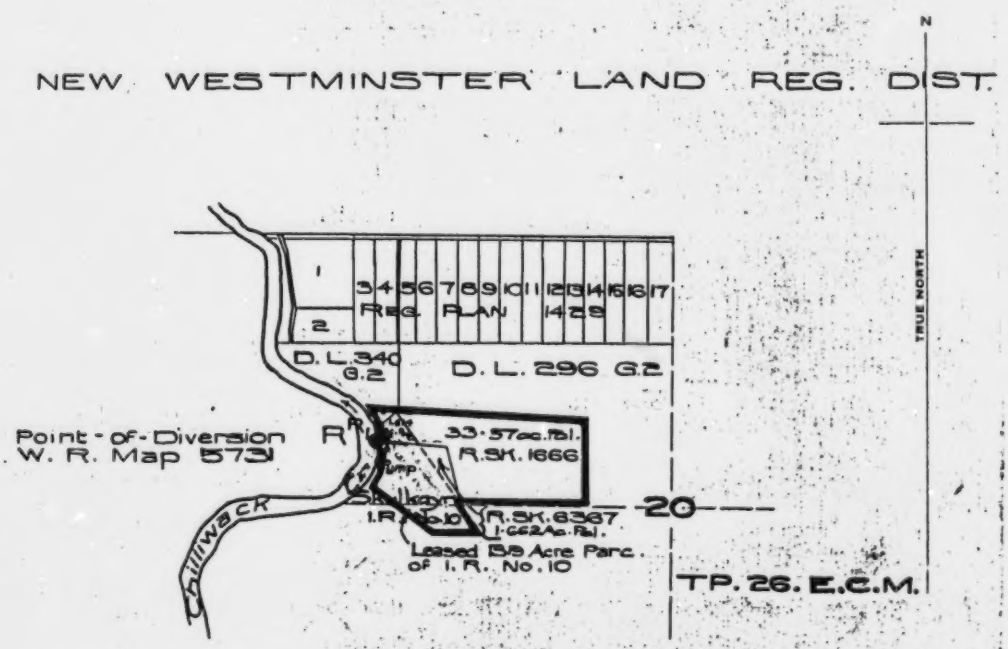
5/

British Columbia

To accompany Final Licence No. 15102

NEW WESTMINSTER WATER DISTRICT

Scale: 20 Chains to 1 Inch



LEGEND

Point of Diversion ●

Pipe ——.——

The boundaries of the land to which this licence is appurtenant are shown thus: ▬▬▬

Signature _____

Date 1st Sept. 1953

F. L. 15102 For C.L. 19231

File 0178939

EXHIBIT "A"

100-348-9428

Stream Register Report Water Licence Information System

Report Requested By : CROCHA
Date Report Requested : 1996/09/17 08:54
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : 805761 - Thornton Creek right of Chilliwack Creek
END POINT : 805470 - Chilliwack Creek left of Fraser River

Priority YYYY/MM/DD	Licence File Number	Appurtenancy Number	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source		MR Map	POD RED POD Comments					Proc	
1949/06/12	F015102	0170939 PORTIONS OF IR 10 SKULKAYH GP 2 RMD	KLOOT FARMS LTD C/O ALFRED FLOOT 46847 PRAIRIE CENTRAL RD CHILLIWACK BC V2P6H3	IRR	64.50 AF	Apr 01	Sep 30		
Chilliwack Creek		MR5731E	RR N					20C MW - CHILLIWACK	
1951/08/02	C063452	0190194 33.75 AC OF L 16 OF 264 & 265 GP 2 RMD PLAN 39160 EXC BCHPA RLY R/W PLAN 57289	JOHN I HAAS HOP CO LTD BOX 190 SARDIS B C V2R1A6	IRR	33.75 AF	Apr 01	Sep 30		
Chilliwack Creek		MR5731E	P5 N					20C MW - CHILLIWACK	
1951/08/02	C063453	0370622 14.25 AC OF PARCEL H OF L 264 & 265 GP 2 RMD REF PLAN 1285 EXC PLAN 39160 & BCHYA RLY R/W PLAN 57289	EBAU INTERNATIONAL INVESTMENTS LTD 207-45485 KNIGHT RD SARDIS BC V2R3G3	IRR	14.25 AF	Apr 01	Sep 30		
Chilliwack Creek		MR5731E	H5 N					20C MW - CHILLIWACK	
1952/08/25	F019753	0196408 PT OF L 340 & 342 & SEC 29 TP 26 EXC ALL RMD - SEE FILE FOR DETAILS	CHILLIWACK MUNICIPAL AIRPORT BOARD 8550 YOUNG RD CHILLIWACK BC V2P4S1	IRR	100.00 AF	Apr 01	Sep 30		
Chilliwack Creek		MR5731E	YY N					20C MW - CHILLIWACK	
Semmihault Creek		MR5731E	ZZ N						
Semmihault Creek		MR5731E	B3 N						
1953/10/23	F018693	0201910 1.9 AC OF PARCEL A (REF PLAN 3701) OF L 337 GP 2 RMD	ROHDE HANS H 7173 CHILLIWACK RIVER RD CHILLIWACK BC V2R4M1	IRR	1.94 AF	Apr 01	Sep 30		
Chilliwack Creek		MR5731E	E3 N					20C MW - CHILLIWACK	

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
	Source		MR Map	POD RED POD Comments					Prec	
1956/06/25	C063449	0213475	6 AC OF L 16 & L 264 & 265 GP 2 NWD PLAN 39160	JOHN I HAAS HOP CO LTD BOX 190 SARDIS B C V2R1A6	IRR	6.00 AF	Apr 01	Sep 30		
	Chilliwack Creek		MR5731E	P5 N					20C NW - CHILLIWACK	
1956/06/25	C063450	0370623	7.70 AC OF L 2 OF L 265 GP 2 NWD PLAN 12084 EXC PLAN 39160, 42780, 60821, 59740 & HWY R/W PLAN 22279 & 50721 & BC HYDRO RLY R/W PLAN 56149 & 57289	RICKBUSH DONALD W & MARGARET E 7915 CHILLIWACK RIVER RD CHILLIWACK BC V2R4L8	IRR	7.70 AF	Apr 01	Sep 30		
	Chilliwack Creek		MR5731E	RJ N					20C NW - CHILLIWACK	
1956/06/25	C063451	0370624	5.30 AC OF L 1 OF L 265 GP 2 NWD PLAN 60821	REINCO HOLDINGS LTD 9425 CARLETON ST CHILLIWACK BC V2P6E1	IRR	5.30 AF	Apr 01	Sep 30		
	Chilliwack Creek		MR5731E	RJ N					20C NW - CHILLIWACK	
1957/05/17	C066996	0216227	27.2 AC OF PARCEL F OF L 296 & 340 GP 2 NWD REF PLAN 1932A EXC PLAN 7037	ROUMOSSOFF MICHAEL V 50816 CASTLEMAN ROSEDALE BC V0X1X0	IRR	27.20 AF	Apr 01	Sep 30		A/A APPORTIONMENT PEND
	Chilliwack Creek		MR5731E	RJ N					20C NW - CHILLIWACK	
1959/12/01	C110814	0328569	PCL ONE (K94084E) OF PCL A REF PLAN 1 6669 DL 258 GP 2 NWD	WILMARK HOMES LTD HOMECRAFT CONSTRUCTION LTD 33375 DOMMES RD ABBOTSFORD BC V4X2H7	IRR	40.00 AF	Apr 01	Sep 30		
	Chilliwack Creek		MR5731E	D4 N					20C NW - CHILLIWACK	
	Chilliwack Creek (New Channel)		MR5731E	F4 N						

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source			MR Map	POD RED POD Comments					Proc	
1959/12/10	C026119	0220822	UNDERTAKING OF THE LICENSEE	CHILLIWACK DISTRICT OF 8550 YOUNG RD S CHILLIWACK BC V2P4P1	LDINP	0.00 YF	Jan 01	Dec 31		
Chilliwack Creek			MR5731E	E4 N					20C NW - CHILLIWACK	
1961/04/17	C064722	0235833	27 AC OF L 72 PLAN 54954 & OF L 62 PLAN 48593 EXC HWY (PLAN 60802) ALL WITHIN L 257 GP 2 NWD	FRASER VALLEY COLLEGE 45600 AIRPORT RD CHILLIWACK BC V2P6T4	IRR	27.00 AF	Apr 01	Sep 30		
Chilliwack Creek			MR5731E	G4 N					20C NW - CHILLIWACK	
1963/03/07	F064350	0248456	54 AC OF L 21 OF L 265 & L 266 GP 2 NWD PLAN 59740	GREENARCH FARMS LTD 7725 CHILLIWACK RIVER RD CHILLIWACK BC V2R4L8	IRR	54.00 AF	Apr 01	Sep 30		
Chilliwack Creek			MR5731E	X4 N					20C NW - CHILLIWACK	
1966/10/28	F070751	0270740	64 AC OF L 14 PLAN 26990 & L 21 PLAN 59740 OF L 265 & 266 GP 2 NWD	GREENARCH FARMS LTD 7725 CHILLIWACK RIVER RD CHILLIWACK BC V2R4L8	IRR	64.00 AF	Apr 01	Sep 30		
Chilliwack Creek			MR5731E	X4 N					20C NW - CHILLIWACK	
1983/04/29	C061629	2000102	CROWN LAND WITHIN CHILLIWACK CR ADJACENT TO REM L G L337 GP 2 NWD REF PLAN 7974	FISHERIES BRANCH 10334 152A ST SURREY BC V3R7P8	COMMX	2,860.00 GD	Jan 01	Dec 31		
Chilliwack Creek			MR5731E	K5 N					20C NW - CHILLIWACK	

---------- Total of 15 Licences Reported ----------

CHILKO RIVER NEAR REDSTONE - STATION NO. 08MA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1927	---	278 ON JUL 26	---	---	1927
1928	399 AT 17:00 PST ON JUL 02	196 ON JUL 02	---	---	1928
1929	247 AT 08:00 PST ON AUG 14	245 ON AUG 13	---	---	1929
1930	297 AT 13:00 PST ON AUG 16	284 ON AUG 16	---	---	1930
1931	279 AT 11:30 PST ON AUG 02	277 ON AUG 02	---	---	1931
1932	303 AT 11:00 PST ON AUG 28	300 ON AUG 27	---	---	1932
1933	262 AT 11:00 PST ON AUG 19	262 ON AUG 19	---	---	1933
1934	286 AT 16:00 PST ON JUN 14	286 ON JUN 14	---	---	1934
1935	377 AT 20:30 PST ON JUL 25	374 ON JUL 25	20.7 ON DEC 30	3 080 000	1935
1936	311 AT 05:00 PST ON JUN 03	306 ON JUN 02	---	---	1936
1937	292 ON JUL 29	289 ON JUL 29	14.2 B ON APR 03	---	1937
1938	283 AT 16:00 PST ON JUN 26	281 ON JUN 26	---	---	1938
1939	309 AT 11:00 PST ON AUG 06	309 ON AUG 06	14.9 B ON FEB 01	2 840 000	1939
1940	289 AT 15:00 PST ON JUL 17	289 ON JUL 17	19.3 B ON MAR 01	3 050 000	1940
1941	368 AT 23:30 PST ON JUL 20	362 ON JUL 20	16.7 B ON MAR 01	2 590 000	1941
1942	---	340E ON AUG 03	18.4 ON APR 08	3 270 000	1942
1943	258 AT 13:00 PST ON AUG 02	254 ON AUG 01	17.0 ON APR 02	---	1943
1944	314 AT 03:00 PST ON JUL 29	314 ON JUL 29	---	---	1944
1945	276 AT 10:00 PST ON JUL 15	271 ON JUL 15	---	---	1945
1946	256 AT 01:00 PST ON JUL 31	255 ON JUL 30	9.57 ON MAR 29	---	1946
1947	216 AT 11:00 PST ON JUN 04	213 ON JUN 05	---	---	1947
1948	445 AT 14:00 PST ON JUN 20	436 ON JUN 19	7.79B ON FEB 28 *	3 500 000	1948
1949	246 AT 21:30 PST ON JUL 16	243 ON JUL 17	10.9 B ON MAR 06	2 390 000	1949
1950	479 AT 11:30 PST ON JUN 20 *	476 ON JUN 20 *	15.9 B ON FEB 08	3 230 000	1950
1951	303 AT 02:00 PST ON JUN 16	300 ON JUL 15	13.7 B ON MAR 13	---	1951
1952	283 AT 17:10 PST ON AUG 13	280 ON AUG 13	11.2 ON APR 08	---	1952
1953	256 AT 16:00 PST ON JUL 12	255 ON JUL 12	10.4 ON APR 14	---	1953
1954	289 AT 17:00 PST ON AUG 25	283 ON AUG 25	14.2 ON MAY 03	---	1954
1955	388 AT 22:00 PST ON JUL 10	382 ON JUL 18	10.3 ON APR 11	2 970 000	1955
1956	326 AT 18:00 PST ON JUL 23	325 ON JUL 23	14.7 ON APR 13	2 920 000	1956
1957	---	345E ON JUN 10	10.7 B ON APR 12	2 600 000	1957
1958	348 AT 18:00 PST ON JUN 26	345E ON JUN 26	14.4 B ON APR 08	---	1958
1959	306 AT 04:15 PST ON JUL 26	303 ON JUL 25	---	---	1959
1960	297 AT 05:00 PST ON JUL 21	294 ON JUL 20	---	---	1960
1961	309 AT 21:00 PST ON JUL 16	309 ON JUL 17	17.8 B ON APR 23	3 200 000	1961
1962	273 AT 07:30 PST ON AUG 03	272 ON AUG 02	---	---	1962
1963	266 AT 08:00 PST ON JUL 22	266 ON JUL 21	20.7 ON APR 10	3 050 000	1963
1964	348 AT 01:00 PST ON JUN 20	345 ON JUN 19	15.0 ON APR 04	---	1964
1965	274 AT 10:00 PST ON AUG 27	273 ON AUG 27	---	---	1965
1966	286 AT 21:00 PST ON JUL 17	286 ON JUL 17	15.0 B ON MAR 21	3 030 000	1966
1967	405 AT 20:30 PST ON JUN 24	396 ON JUN 24	14.0 E ON MAR 13	3 510 000	1967
1968	351 AT 22:00 PST ON JUL 12	348 ON JUL 12	19.8 B ON DEC 29	3 070 000	1968
1969	394 AT 18:40 PST ON JUN 20	391 ON JUN 21	17.0 B ON MAR 28	3 060 000	1969
1970	238 AT 20:50 PST ON JUN 28	235 ON JUN 28	12.7 B ON MAR 30	2 140 000	1970
1971	---	206E ON AUG 03	13.0 B ON JAN 01	2 550 000	1971
1972	300 AT 22:03 PST ON JUN 26	287 ON JUN 26	14.3 B ON FEB 22	2 630 000	1972
1973	209 AT 18:10 PST ON JUL 10	208 ON AUG 10	11.0 B ON FEB 17	2 040 000	1973
1974	263 AT 06:08 PST ON JUN 22	260 ON JUN 22	15.5 B ON MAR 01	2 700 000	1974
1975	311 AT 05:00 PST ON JUL 13	311 ON JUL 13	13.5 B ON FEB 24	2 370 000	1975
1976	402 AT 23:25 PST ON AUG 09	396 ON AUG 10	16.4 ON MAR 04	2 970 000	1976
1977	268 AT 17:20 PST ON AUG 15	265 ON AUG 15	19.5 ON MAR 30	2 380 000	1977
1978	292 AT 18:55 PST ON JUL 28	289 ON JUL 28	13.6 B ON MAR 08	2 520 000	1978
1979	---	203E ON JUL 24	13.8 B ON FEB 13	2 160 000	1979
1980	215 AT 01:23 PST ON JUL 28	214 ON JUL 25	11.6 B ON APR 07	2 340 000	1980
1981	301 AT 14:49 PST ON JUL 30	296 ON JUL 30	20.1 ON APR 19	2 770 000	1981
1982	311 AT 17:17 PST ON JUL 04	306 ON JUL 04	14.0 B ON APR 22	2 760 000	1982
1983	240 AT 22:24 PST ON JUN 02	236 ON JUN 03	14.7 E ON APR 09	2 410 000	1983
1984	398 AT 09:00 PST ON OCT 10	393 ON OCT 10	16.0 ON APR 13	2 470 000	1984
1985	250 AT 00:32 PST ON AUG 05	246 ON AUG 04	12.6 B ON DEC 25	2 110 000	1985
1986	372 AT 22:35 PST ON JUN 07	371 ON JUN 07	12.1 B ON JAN 05	2 590 000	1986
1987	352 AT 13:25 PST ON JUL 04	349 ON JUL 04	17.5 B ON MAR 02	2 800 000	1987
1988	229 AT 06:53 PST ON AUG 07	227 ON AUG 07	11.1 B ON MAR 29	2 330 000	1988
1989	235 AT 10:15 PST ON JUN 13	232 ON JUN 13	13.2 B ON APR 05	2 510 000	1989
1990	---	277 ON JUL 15	15.0 B ON MAR 23	2 970 000	1990
				2 730 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

CHILLIWACK CREEK NEAR CHILLIWACK - STATION NO. 08MF061

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	---	---	---	---	1.30	1.40	---	1960
1961	2.20	3.46	1.78	1.22	---	---	---	---	0.305	0.652	0.882	1.93	---	1961
1962	1.35	1.44	1.02	1.16	---	---	---	---	0.265	0.514	1.78	2.39	---	1962
1963	1.54	1.53	0.963	0.938	---	---	---	---	0.318	0.721	2.41	2.49	---	1963
1964	2.57	1.40	1.73	0.998	---	---	---	---	---	---	---	---	---	1964
MEAN	2.17	1.96	1.37	1.08	---	---	---	---	0.296	0.629	1.59	2.05	---	MEAN

LOCATION - LAT 49 09 05 N
LONG 121 56 55 W NATURAL FLOW

CHILLIWACK CREEK NEAR CHILLIWACK - STATION NO. 08MF061

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1961	---	10.7 ON FEB 21 *	0.193 ON AUG 30 *	---	1961
1962	---	7.62 ON DEC 30	0.232E ON SEP 01	---	1962
1963	---	8.58 ON DEC 23	0.263 ON SEP 10	---	1963
1964	---	---	---	---	1964
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

CHILLIWACK RIVER ABOVE SLESSE CREEK - STATION NO. 08MH103

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

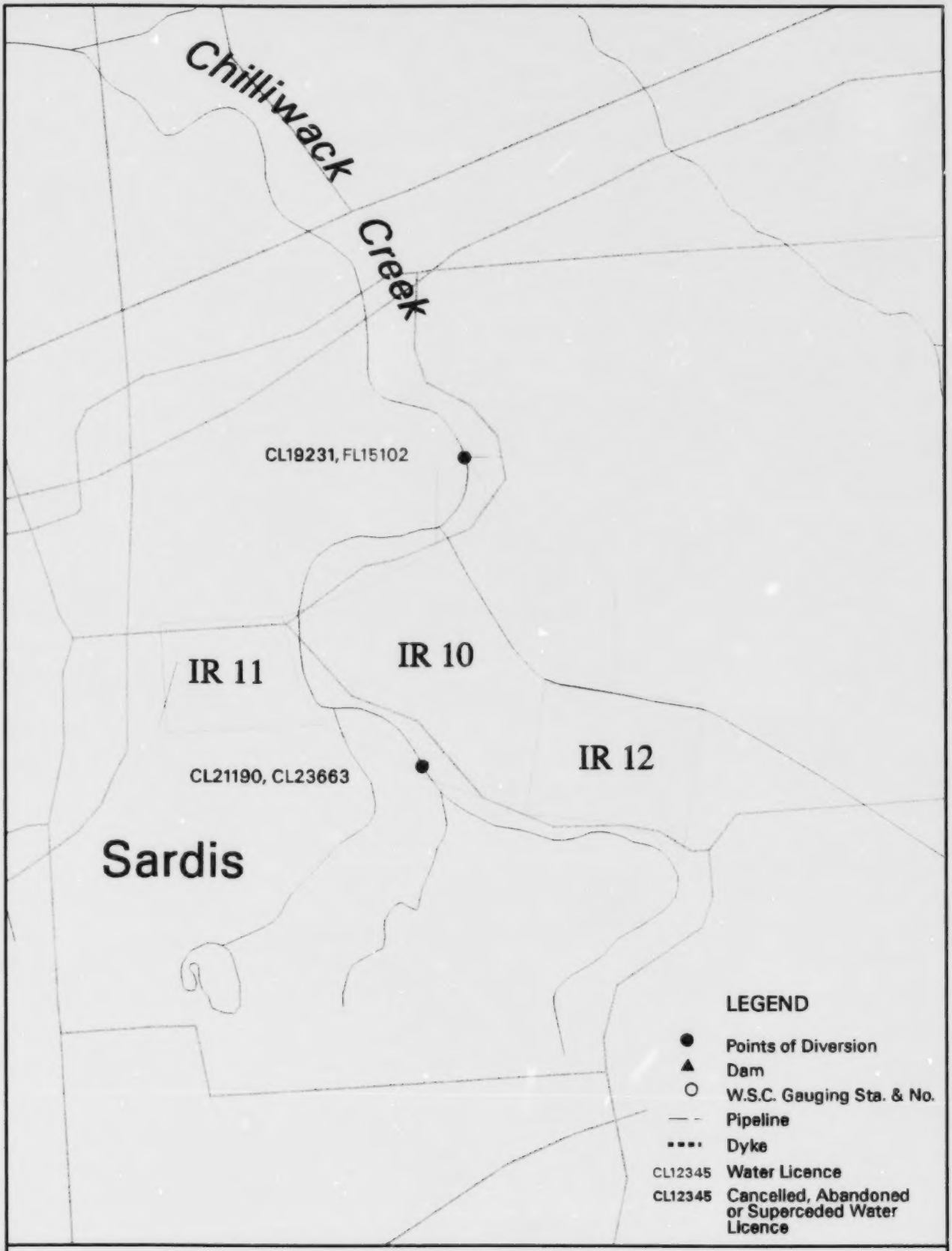
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	---	---	---	---	16.4	30.2	44.4	37.3	---	1963
1964	31.9	18.3	13.4	21.5	45.3	109	86.5	44.0	30.5	33.2	21.4	24.3	40.0	1964
1965	19.8	32.3	22.9	27.3	55.8	76.2	48.9	27.2	13.3	22.0	39.2	28.0	34.3	1965
1966	17.5	11.2	15.1	38.5	53.0	73.6	65.7	28.6	16.0	27.3	26.9	54.9	36.7	1966
1967	27.7	25.1	14.2	24.3	57.0	119	67.3	29.2	17.4	45.4	44.3	34.1	41.4	1967
1968	28.1	43.5	31.6	50.3	53.9	91.1	68.0	28.2	14.8	24.9	35.4	27.0	43.5	1968
1969	22.6	9.91	11.7	32.4	85.8	87.8	37.5	17.9	25.2	25.6	25.3	20.2	33.6	1969
1970	18.0	23.0	16.6	19.8	41.8	81.3	35.9	16.2	13.9	13.4	17.4	18.3	26.2	1970
1971	23.8	49.9	26.9	21.8	63.2	87.6	84.3	40.8	18.5	22.4	26.3	16.1	40.9	1971
1972	13.6	18.6	67.1	32.1	89.5	125	103	47.9	25.6	18.2	15.0	30.4	48.0	1972
1973	23.6	13.5	12.6	15.6	53.1	58.9	41.8	20.6	11.8	20.7	29.9	32.1	27.9	1973
1974	43.4	20.9	23.4	30.9	57.1	129	94.2	50.6	21.8	10.8	19.9	24.2	44.0	1974
1975	22.3	13.5	13.9	12.2	51.6	90.0	69.9	26.7	16.9	33.6	59.0	78.1	40.8	1975
1976	37.8	23.8	13.0	23.9	74.0	79.0	89.6	38.9	35.3	15.8	16.5	21.1	40.8	1976
1977	25.2	20.4	15.7	30.4	39.1	58.5	28.6	13.5	15.5	14.1	34.6	47.4	29.4	1977
1978	19.3	16.1	21.7	27.6	41.9	73.4	47.4	25.5	34.5	18.4	29.4	17.2	30.6	1978
1979	7.48	10.1	30.9	23.1	57.9	56.3	34.2	17.2	17.1	12.7	12.2	58.5	28.3	1979
1980	18.4	22.0	26.2	36.9	66.8	56.9	40.9	20.6	18.9	13.7	38.2	71.4	36.0	1980
1981	37.5	33.4	18.7	24.8	48.2	61.1	45.6	23.8	16.1	25.0	28.8	26.8	31.3	1981
1982	17.7	30.3	20.9	17.5	57.1	114	73.4	32.6	20.9	20.6	18.5	27.8	35.7	1982
1983	31.4	23.6	25.9	22.3	50.1	74.0	66.3	26.8	16.2	20.7	43.6	13.6	34.2	1983
1984	55.8	25.6	22.3	21.0	36.6	77.9	61.2	29.5	21.9	21.7	28.4	16.3	34.9	1984
1985	13.5	11.5	9.85	36.1	65.0	87.0	44.6	17.7	13.5	33.4	41.0	10.7	32.0	1985
1986	29.5	39.4	44.3	35.8	88.6	74.2	40.5	16.9	12.3	14.2	36.1	21.5	34.3	1986
1987	25.9	19.4	25.0	36.8	71.3	56.7	34.6	14.9	10.4	6.25	7.28	14.2	27.7	1987
1988	20.4	12.4	14.5	50.8	71.3	73.5	48.9	22.1	14.7	29.0	40.4	27.1	35.4	1988
1989	20.0	16.7	15.2	43.9	62.1	80.3	37.3	22.1	10.7	13.5	78.9	47.1	37.3	1989
1990	23.4	19.7	20.5	48.3	49.6	76.0	55.8	22.5	13.8	38.6	114	37.2	43.3	1990
MEAN	25.8	22.3	21.8	28.2	59.1	82.4	57.5	28.0	19.0	22.0	34.7	31.3	36.0	MEAN

LOCATION - LAT 49 06 09 N DRAINAGE AREA, 645 km^2
LONG 121 39 42 W NATURAL FLOW

CHILLIWACK RIVER ABOVE SLESSE CREEK - STATION NO. 08MH103

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	148 AT 10:45 PST ON NOV 26	121 ON NOV 26	---	---	1963
1964	144 AT 22:00 PST ON JUN 10	136 ON JUN 10	11.2 ON MAR 28	1 270 000	1964
1965	105 AT 21:15 PST ON JUN 11	101 ON JUN 11	8.16 ON OCT 03	1 080 000	1965
1966	144 AT 10:30 PST ON DEC 16	140 ON DEC 16	8.50 ON MAR 04	1 160 000	1966
1967	223 AT 12:50 PST ON OCT 31	159 ON JUN 21	11.7 ON MAR 15	1 300 000	1967
1968	171 AT 09:00 PST ON JUN 02	161 ON JUN 02	16.6 ON APR 22	1 380 000	1968
1969	140 AT 18:15 PST ON MAY 24	135 ON MAY 24	7.84 ON MAR 13	1 060 000	1969
1970	125 AT 23:00 PST ON JUN 03	117 ON JUN 04	8.50E ON SEP 16	828 000	1970
1971	135 AT 18:06 PST ON JAN 30	123 ON JAN 31	10.5 ON JAN 07	1 290 000	1971
1972	184 AT 10:07 PST ON JUL 12	182 ON JUN 10	8.61 ON DEC 15	1 520 000	1972
1973	101 AT 20:20 PST ON MAY 17	95.7 ON MAY 18	9.43 ON OCT 10	861 000	1973
1974	202 AT 22:34 PST ON JUN 19	193 ON JUN 19	7.25 ON NOV 05	1 390 000	1974
1975	283 AT 01:37 PST ON DEC 04	227 ON DEC 03	8.78 ON APR 07	1 290 000	1975
1976	134 AT 18:36 PST ON JUN 19	129 ON JUN 19	10.6 ON NOV 14	1 290 000	1976
1977	151 AT 07:58 PST ON JAN 18	111 ON JAN 18	8.75 ON OCT 22	928 000	1977
1978	247 AT 19:26 PST ON NOV 07	109 ON NOV 07	8.35B ON DEC 31	965 000	1978
1979	210 AT 22:19 PST ON DEC 17	172 ON DEC 18	5.52B ON FEB 01	893 000	1979
1980	387 AT 08:50 PST ON DEC 26	262 ON DEC 26	9.49 ON OCT 31	1 140 000	1980
1981	102 AT 00:00 PST ON JAN 01	94.8 ON JAN 01	11.7 ON SEP 26	1 020 000	1981
1982	165 AT 23:10 PST ON JUN 20	159 ON JUN 21	12.8 ON NOV 25	1 190 000	1982
1983	180 AT 02:53 PST ON JUL 12	155 ON JUL 14	7.26 ON OCT 16	1 080 000	1983
1984	404 AT 11:50 PST ON JAN 04	278 ON JAN 04	9.94 ON JAN 01	1 100 000	1984
1985	139 AT 15:12 PST ON OCT 27	126 ON MAY 24	7.80 ON OCT 10	1 010 000	1985
1986	202 AT 16:04 PST ON NOV 23	142 ON JUN 01	6.39 ON OCT 24	1 080 000	1986
1987	190 AT 03:42 PST ON MAY 12	160 ON MAY 12	5.08 ON NOV 09 *	875 000	1987
1988	153 AT 21:57 PST ON NOV 05	126 ON MAY 13	6.44 ON JAN 12	1 120 000	1988
1989	465 AT 03:43 PST ON NOV 10 *	345 ON NOV 10	6.97 ON OCT 09	1 180 000	1989
1990	---	415 E ON NOV 10 *	9.56 ON OCT 02	1 370 000	1990
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 140 000	MEAN



SKOWKALE FIRST NATION

Scale: 1 : 15,000

Ministry of Environment, Lands & Parks | Date: February 2000 | Environment & Lands Division